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# Speech Synthesis Elevator Control Unit

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# **SENIOR DESIGN**

## **TECHNICAL REPORT**

for

SPEECH SYNTHESIS ELEVATOR CONTROL UNIT

title

in partial fulfillment of the requirements

for the degree of

### **BACHELOR OF SCIENCE**



presented to the

**ELECTRICAL ENGINEERING TECHNOLOGY FACULTY**

**INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE**

APRIL 25, 1980

date

by

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GRADE: .

APPROVED: .

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## ABSTRACT

Visually impaired people have long sought a better method of operating elevator systems. Interfacing a speech synthesis system to an elevator is being explored as a means of improving the access problem. The benefits to be gained by a speech synthesis elevator control are voice verification of floor selection, announcement of the car arrival at a floor and car direction, total access by visually impaired persons to elevator systems and the ability to interface the system to existing control circuitry. The most significant benefit is that the system requires no special operator skills. The one disadvantage at present is the high initial cost. However, rapidly advancing technology will soon bring this cost down.